

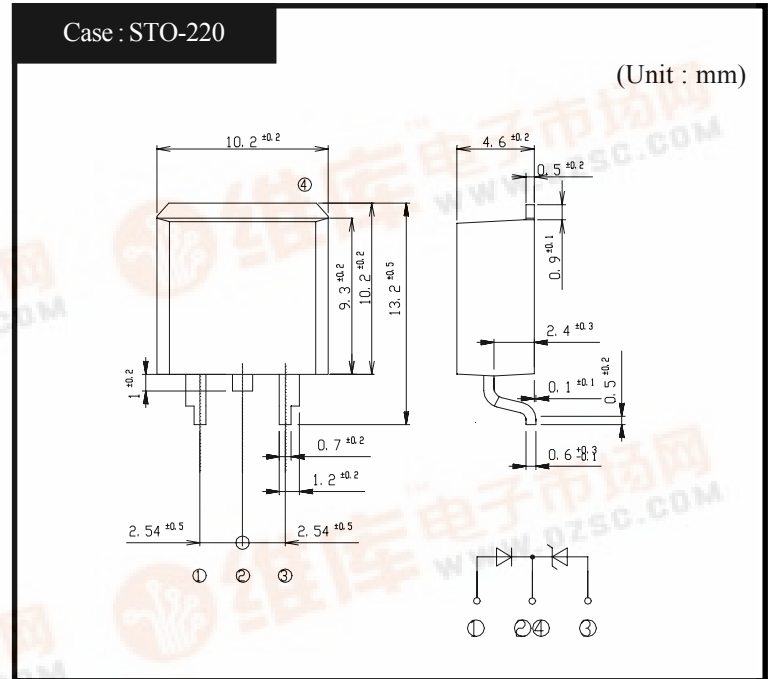
# SHINDENGEN

Trankiller

STO-220

**ST50V-27F**

## OUTLINE DIMENSIONS



## RATINGS

### ●Absolute Maximum Ratings

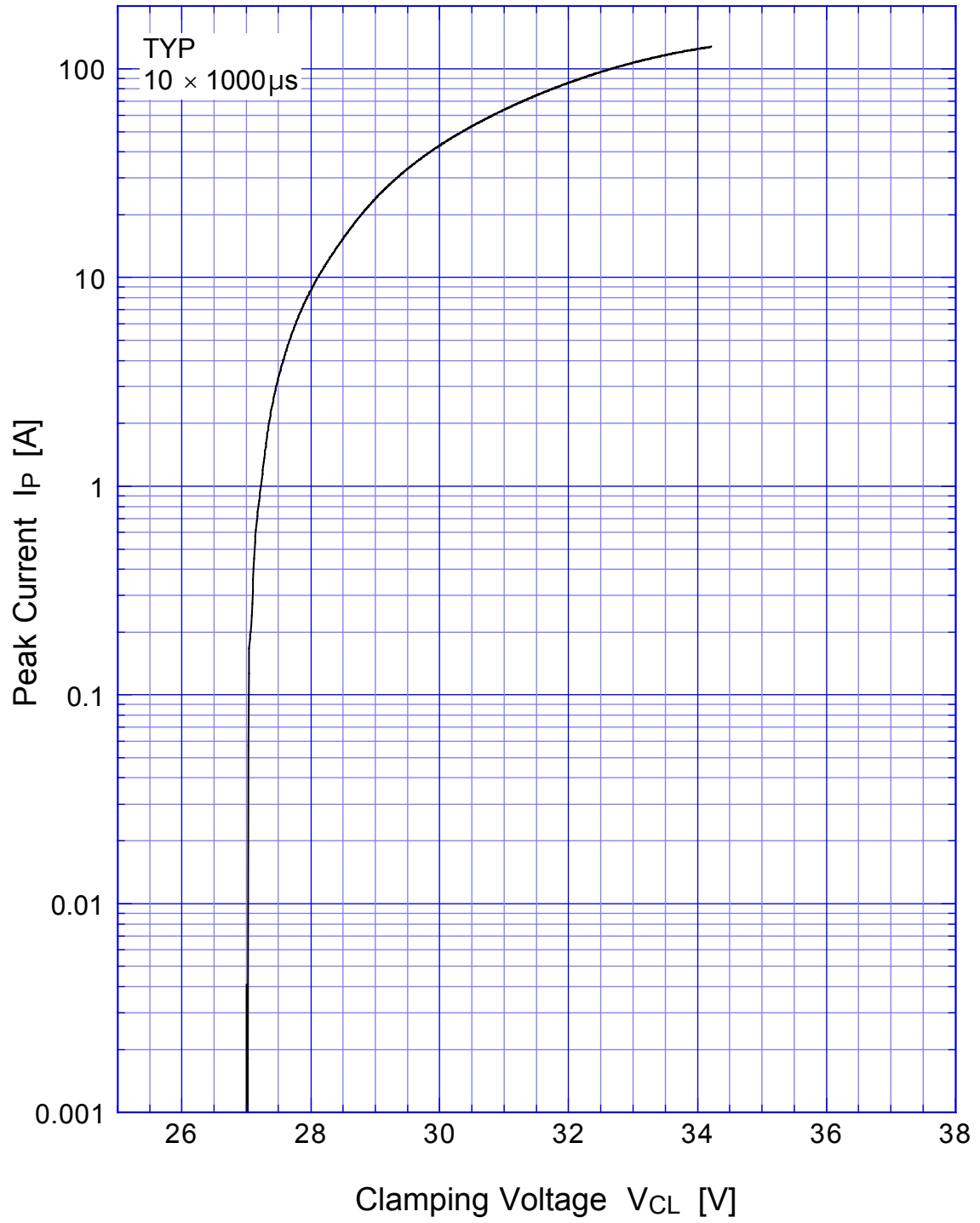
Item	Symbol	Conditions	Ratings		Unit
			Trankiller	Diode	
Storage Temperature	T <sub>stg</sub>		-40~150	-40~150	°C
Operating Junction Temperature	T <sub>j</sub>		150	150	°C
Peak Surge Reverse Power	P <sub>RSM</sub>	10×1000 μs, Non-repetitive	5000	-	W
Peak Surge Reverse Current	I <sub>RSM</sub>	10×1000 μs, Non-repetitive	130	-	A
Maximum Reverse Voltage	V <sub>RM</sub>		23	400	V

### ●Electrical Characteristics (T<sub>c</sub>=25°C)

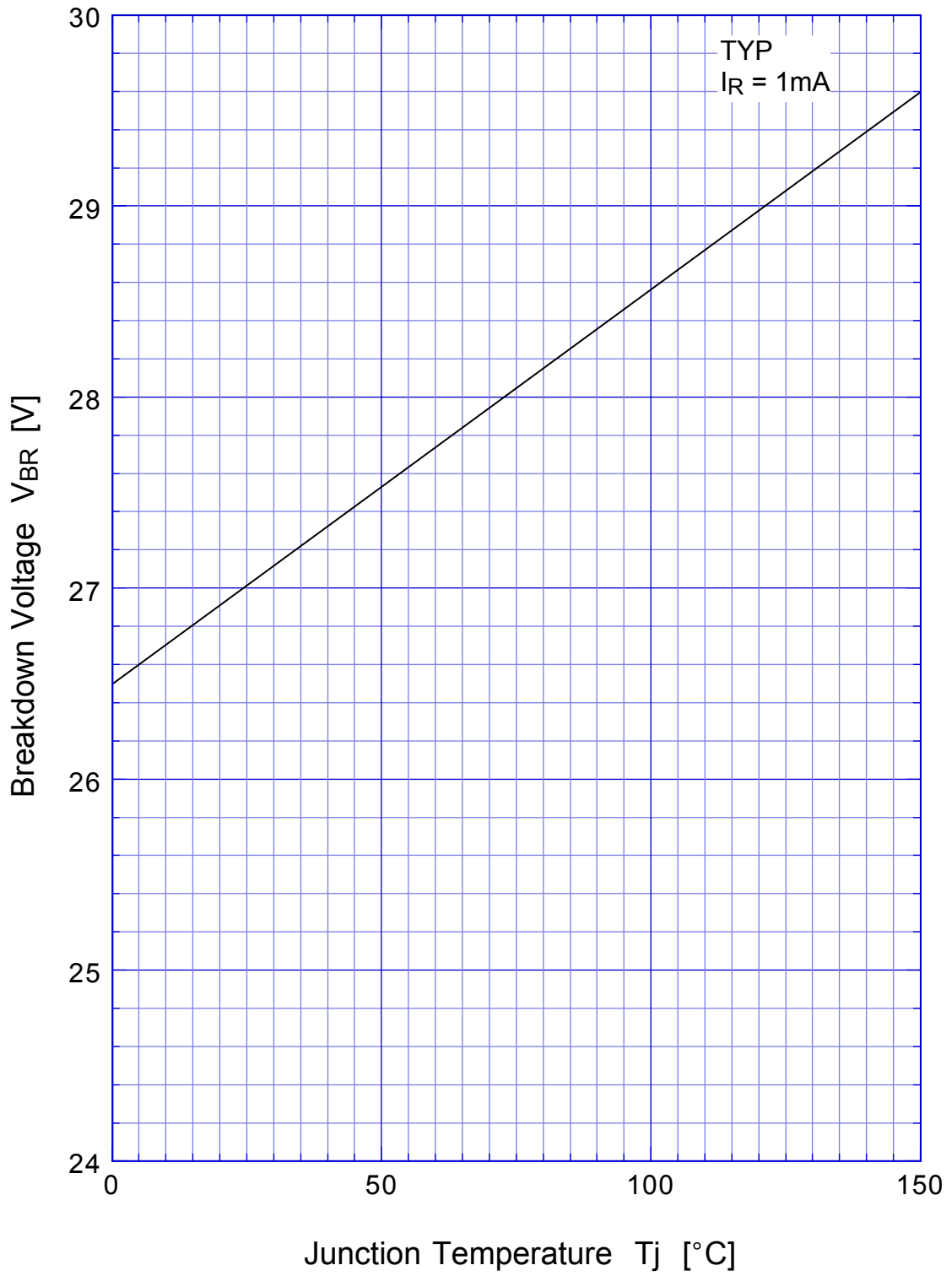
Item	Symbol	Conditions	Ratings		Unit
			Trankiller	Diode	
Movement Start Voltage	V <sub>BR</sub>	I <sub>R</sub> = 1mA	MIN24.3 STD27 MAX29.7	-	V
Restriction Voltage	V <sub>CL</sub>	I <sub>pp</sub> = 130A, I <sub>pp</sub> Definition	MAX 38	-	V
Leakage Current	I <sub>R</sub>	V <sub>R</sub> = V <sub>RM</sub>	MAX 5	MAX 5	μA
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 1.1A	-	MAX 1.2	V

ST50V-27F

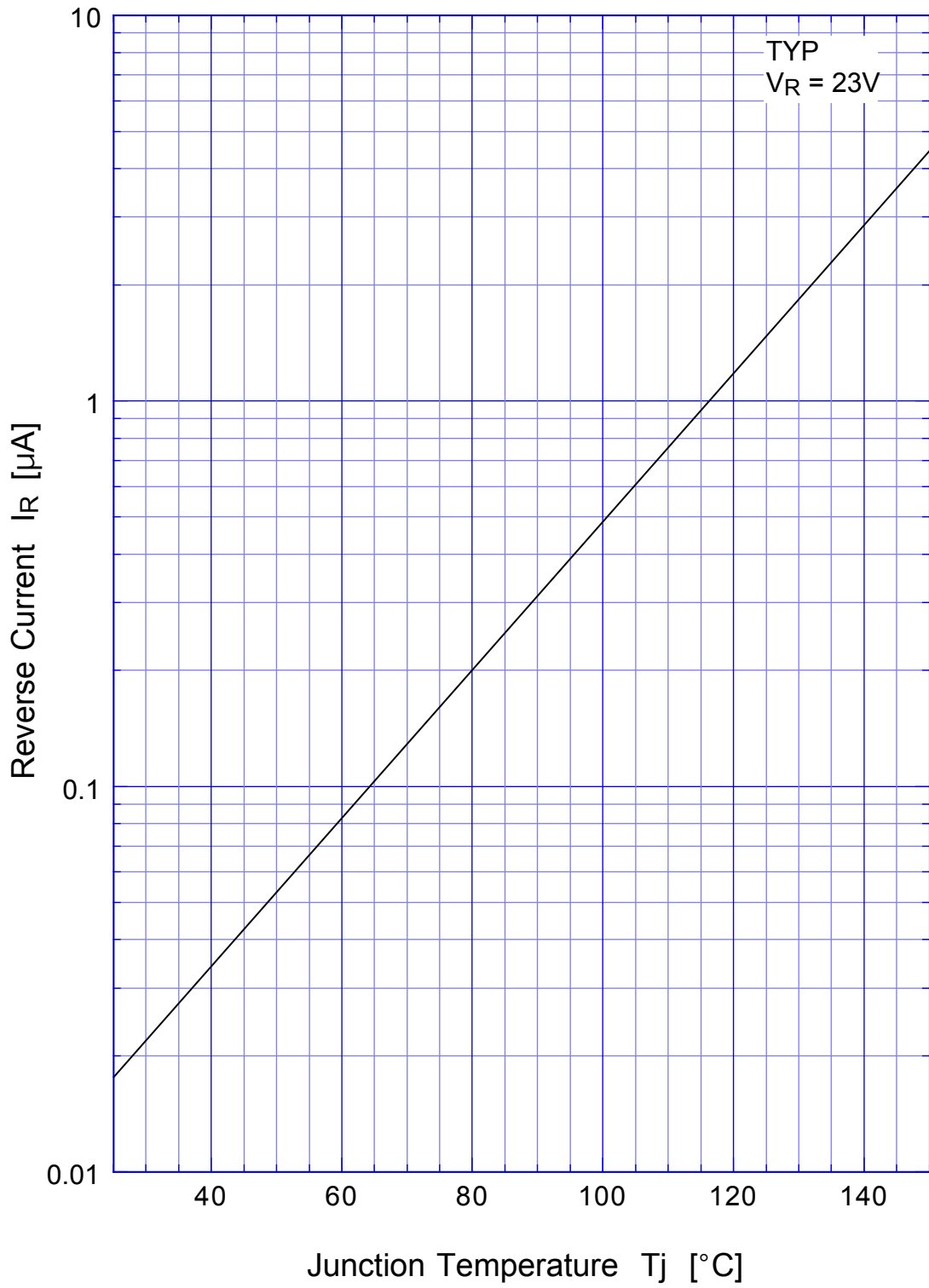
Clamping Voltage



ST50V-27F Breakdown Voltage



ST50V-27F Reverse Current



# ST50V-27F Peak Surge Reverse Current

